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Figure 1

Proinsulin	C-peptide
Ins_Human	EAEDLQVGQVELGGGPGAGSLQPLALEGSLQ
Ins_Pantr(Chimpanzee)	EAEDLQVGQVELGGGPGAGSLQPLALEGSLQ
Ins_Aotr (Night monkey)	EAEDLQVGQVELGGGSITGSLPPLEGPMQ
Ins_Macpa (Crabeatingmacaque)	EAEDPQVGQVELGGGPGAGSLQPLALEGSLQ
Ins_Cerab (Green monkey)	EAEDPQVGQVELGGGPGAGSLQPLALEGSLQ
Ins_Pig	EAENPQAGAVELGGGLGGLQALALEGPPQ
Ins_Boven	EVEGPQVGALELAGGPGAGGLEGPPQ
Ins_Horse	EAEDPQVGVEVELGGGPGLGGLQPLALAGPQQ
Ins_sheep	EVEGPQVGALELAGGPGAGGLEGPPQ
Ins_Canpa (dog)	EVEDLQVRDVELAGAPGEGGLQPLALEGALQ
Ins_Rabbit	EVEELQVGQABLGGGPGAGGLQPSALELALQ
Ins1_Rat	EVEDPQYPQLELGGGPPEAGDLQTLALEVARQ
Ins2_Rat	EVEDPQVAQLELGGGPGAGDLQTLALEVARQ
Ins_Rodsp (rodent sp)	EVEDPQVGQVELGAGPGAGSEQTLALEVARQ
Ins1_mouse	EVEDPQVEQLELGGSPGDLQTLALEVARQ
Ins2_Mouse	EVEDPQVAQLELGGGPGAGDLQTLALEVAQQ
Ins_Caypo (guinea pig)	ELEDPQYEQTELGMGLGAGGLQPLALEMALQ
Ins_Crilo	GYEDPQVAQLELGGGPGADDLQTLALEVAQQ
Ins_Psaob	GYDDPQMPQLELGGSPGAGDLRALALEVARQ
Ins_Ocide	ELEDLQVEQAELGLEAGGLQPSALEMILQ
Q62543 (western wild mouse)	GGPGAGDLQTLALEVAQQ
Q62542 (western wild mouse)	GSPGDLQTLALEVARQ
Ins_Anapl (domestic duck)	DVEQPLVNGPLKGEVGELPPQHHEYQXX

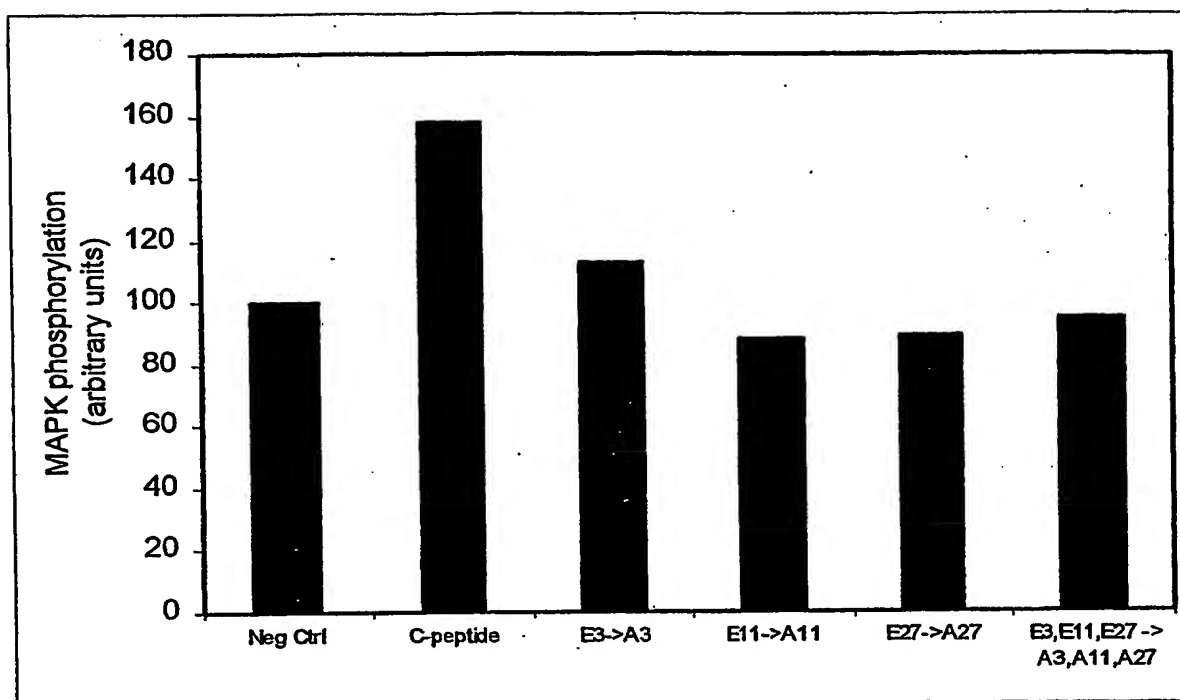
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Figure 1
(continued)**Proinsulin****C-peptide**

Ins_Chick (chicken)	DVEQPLYSSPLKGEAGYLPPQQEEYEKV
Ins_Self (hummingbird)	DAEHPLVNGPLHGEVGDLPQQEEFEKV
Ins1_Xenla (Africanclawed frog)	DMEQALVSGPQDNELDGMQLQPQEYQKM
Ins2_Xenla (Africanclawed frog)	DIEQAQVNGPQDNELDGMQFQPQEYQKM
AAF87285(Northernleopardfrog)	DLEQPLVNGLQGSELDEMQVQSQAFQKK
Ins_Brere (zebrafish)	DVEPLLGLPPLPKSAQETEVADFAFKDHAEIK
Ins_Calmi (elephantfish)	DVGPLSAFRDLEPPLDTEMEDRFPYRQQLAGSKM
Ins_Cypca (common carp)	DVDPPLGPLPPLPKSAQETEVADFAFKDHAEVIR
Ins_Loppi (goosefish)	DVDQLLGFLPPLKSGGAAAAGADNEVAEFAFKDQMEMMV
Ins_Oncke (salmon)	DVDPLIGFLSPKSAKENEEYPFKDQTEMMV
Ins_Oreni	DVDPLLGLPPLPKAGGAVVQGGENEVTFKDQMEMMV
Q91163 (salmon)	DVDPLIGFLSPKSSQENEYAEYPFKDQMDMIV
Ins_Vermo	DVDPLLGLPLPAKSGGAAAGGENEVAEFAFKDQMEMMV
Ins_MYXGL	DTGALAAFLPLAYAEDNESQDDESIGINEVLKS

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Figure 2



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Figure 3

